

HVA40-5

VLF High Voltage Test Set Extreme Output Voltage

5 μ F

- VLF pure sinusoidal voltage
- VLF rectangular voltage
- DC voltage
- 5 μ F @ 0.1 Hz @ 30kV_{rms} / 42kV_{peak}
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test
- Patented Technology

The compact design and unmatched high voltage output power to weight ratio of the HVA test sets are second to none in the market, and make the b2 electronic high-voltage generators the lightest in all classes at all voltage levels.

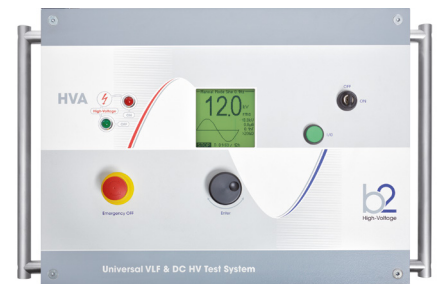
Performance - 5 μ F @ 0,1 Hz @ 30 kV_{rms} / 42 kV_{peak}

Dry system - The HVA40-5 test set is a dry type test system - with no oil filled components. This means less maintenance, compact and lightweight design and no limitation of operating time.

Safety - The instrument has two independent earthing devices (electronic and mechanical discharging) and a 12 kV feedback protection system to protect both operator and instrument.

Connectivity - On site, no external PC is needed. All results can be downloaded later by USB for further investigation and easy report creation on the PC software.

Solid HV connectors - Robust HV-connectors allow the use of different HV test lead lengths, the quick exchange for a replacement cable, or the simpler upgrade path for connection of diagnostic systems.



Features

- Output voltage 45 kV_{peak} / 32 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Output current 150 mA max.
- Highest test capacity of 10 μ F
- Unlimited and continuous duty cycle
- Cable testing according: CENELEC HD 620/621, IEEE 400.2-2004, IEC60502-2:2014
- Programmable test sequences
- PC software "b2 Control Center" with various reporting functions included
- Upgradable with Partial Discharge diagnostic and Tan Delta Diagnostics System (optional)
- 12kV transient protection (50 Hz)
- Dual Discharge Device (DDD®), two integrated and automatic discharge devices
- Easily exchangeable HV cable
- Real time oscilloscope display of output voltage
- Breakdown voltage and load detection (R and C)
- RMS digital metering of voltage and current
- Vacuum Bottle Test
- Sheath Fault Locating (in combination with Earth Fault Locator) (not included)

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b2
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HVA40-5



smallest and lightest
VLF cable test set



dry system



unlimited operating
time



Transportbox (optional)

HVA40-5		
Article number	SH0271	
Input Voltage	190 – 240 V, 50/60 Hz, 3 kVA	
Output Voltage	Sinusoidal	0 - 45 kV _{peak} / 32 kV _{rms}
	DC	± 0 – 45 kV
	Squarewave	0 - 45 kV
	Accuracy	± 1%
	Resolution	0.1 kV
Output Current	0 – 150 mA (Resolution 1 µA) Accuracy: ±1%	
Resistance Range	0.1 MΩ...5 GΩ	
Output Frequency	0.01 ... 0.1 Hz in steps of 0.01 Hz (default 0.1 Hz) - auto frequency	
Output Load	5.0 µF @ 0.1 Hz @ 30 kV _{rms} / 42 kV _{peak} 4.0 µF @ 0.1 Hz @ 32 kV _{rms} / 45 kV _{peak} 8.0 µF @ 0.1 Hz @ 20 kV _{rms} / 28 kV _{peak} 15.0 µF maximum Capacitance! ¹	
Sheath Test	Unmax	10 kV
	Trip Current	0.1 mA – 5.0 mA
Sheath Fault Location ²	Unmax	10 kV
	Pulse/Period	1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s
Output Modes	AC (VLF) Symmetrical and load independent across full range, DC (plus or negative polarity), Burn-/Fault Condition or Fault Trip Mode, Jacket / Sheath Testing	
Safety	50 Hz 12 kV Feedback Protection / Dual Discharge Device (internal)	
Memory	50 Test Record Stored USB almost unlimited	
Metering	Voltage and Current (True rms and / or peak), Capacitance, Resistance, Time, Flashover Voltage	
HV-Cable	5 m with MC contact and alligator clamps	
Software	"b2 Control Center" (included)	
Computer interfaces	RS232	standard
	USB	Flash Drive
Dimensions	L 450 x W 340 x H 520 mm	
Weight	56 kg	
Environmental conditions	Storage: -25°C to + 70°C Operating: -10°C to + 50°C Humidity: 5-85% non condensing	

¹ at lower frequency and voltage | ² in combination with locating device (not in scope of supply)

DHV1386 Rev02 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.



Riedstrasse 1 | A-6833 Klaus
+43 (0) 5523 57373 | info@b2hv.at

Options

- External Tan Delta Diagnostics System TD60 / TD60-MC
- Partial Discharge with integrated Tan Delta Diagnostics System PDTD60-2

Scope of delivery

- HVA40-5 Testing Device
- PC Software - b2 ControlCenter
- HV cable 5 m
- Power and earthing cable
- USB Stick
- Operating Manual